

**Los Angeles County Flood Control District
Individual Annual Report for the Municipal Stormwater Permit
(Order No. 01-182 and R4-2012-0175)
NPDES Permit No. CAS004001**

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- G. Watershed-Specific Outreach Program (IV.A.4.a)
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- I. Household Hazardous/E-Waste Collection
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This form summarizes the requirements in Order No. 01-182. Each Permittee must complete this form in its entirety, except for those requirements applicable only to the Principal Permittee. Only report activities that were performed during the previous fiscal year. Upon completion, this form shall be submitted to the Principal Permittee, by the date specified by the Principal Permittee, for inclusion in the unified Annual Storm Water Program Report. Attachments should be included where necessary to provide sufficient information on program implementation.

The goals of this Report are to: 1) concisely document implementation of the Storm Water Quality Management Program (SQMP) during the past fiscal year; 2) evaluate program results for continuous improvement; 3) to determine compliance with Order 01-182; and 4) to share this information with other Permittees, municipal decision makers, and the public.

!	YOU MUST FILL OUT ALL THE INFORMATION REQUESTED <i>Do not leave any of the sections blank.</i>
N/A	If the question does not apply to your municipality, please indicate N/A in the space provided and provide a brief explanation
U	If the information requested is currently unavailable, please indicate U in the space provided and give a brief explanation.

This Report Form consists of the following sections:

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Reporting Year 2012 - 2013

I. Program Management

A. Permittee Name: LOS ANGELES COUNTY FLOOD CONTROL DISTRICT

B. Permittee Program Supervisor: Frank Wu

Title: Senior Civil Engineer

Address: 900 South Fremont Avenue

City: Alhambra

Zip Code: 91803

Phone: (626) 458-4358

Fax: (626) 458-3534

C. In the space below, briefly describe how the storm water program is coordinated within your agency's departments and divisions. Include a description of any problems with coordination between departments. To facilitate this, complete the Table 1.

The Watershed Management Division (WMD) of the Los Angeles County Department of Public Works (LACDPW) coordinates the development and implementation of the programs mandated by the Municipal Stormwater Permit throughout the Los Angeles County Flood Control District (LACFCD) service area. WMD also represents the LACFCD in carrying out the duties of the Principal Permittee. Each Division within the LACDPW designates a representative to communicate with WMD to ensure full program implementation.

TABLE 1 - Program Management

Storm Water Management Activity	Division/Department	# of Individuals Responsible for Implementing
1. Outreach & Education	LACDPW Flood Maintenance and Survey/Mapping Divisions and Public Relations Group	7
2. Industrial/Commercial Inspections	N/A	N/A
3. Construction Permits/Inspections	N/A	25
4. IC/ID Inspections	LACDPW Flood Maintenance and Land Development Divisions	34
5. Street sweeping	N/A	N/A
6. Catch Basin Cleaning	LACDPW Flood Maintenance Division	6 + contractors
7. Spill Response	LACDPW Flood Maintenance and Information Technology Divisions	28.5 + contractors
8. Development Planning (project/SUSMP review and approval)	N/A	5
9. Trash Collection	N/A	N/A

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D. Staff and Training

Attach a summary of staff training over the last fiscal year. This shall include the staff name, department, type of training, and date of training.

See Attachment A

E. Budget Summary

1. Does your municipality have a storm water utility? Yes ☐ No ☒
If no, describe the funding source(s) used to implement the requirements of Order No. 01-182.

The LACFCD's Stormwater Program is funded by a Flood Control Benefit Assessment.

Permittees face critical water quality challenges whose solution will severely strain existing revenue sources. To meet these challenges, the Los Angeles County Flood Control District, at the direction of the LACFCD's Board of Supervisors, explored creation of a District-wide Clean Water, Clean Beaches fee, which subject to voter approval, would implement an annual property-based fee to pay for local and regional projects and programs to help prevent pollution from stormwater and urban runoff, clean up pollution that flows into our local and major waterways, and remove contamination from stormwater that enters the ground water supply, which is an important source of drinking water. However, at the conclusion of a public hearing for the proposed fee on March 12, 2013, the Board of Supervisors voted to not proceed with the fee at this time.

2. Are the existing financial resources sufficient to accomplish all required activities? Yes ☒ No ☐
3. Complete Table 2 to the extent that accurate information is available (indicate U in the spaces where the information is unavailable), and report any supplemental dedicated budgets for the same categories on the lines below the table.
4. List any additional state/federally funded projects related to storm water.

- Oxford Retention Basin Enhancement Project - The Project is designed to enhance flood protection, reduce runoff pollution, and significantly improve the quality of plant and wildlife habitat within the facility, as well as its aesthetic appeal. Diseased trees and non-native plants will be replaced with more native drought-tolerant species. The project will also provide new recreational and safety amenities, including a walking path, observation areas, wildlife-friendly lighting and more attractive tubular fencing. The project also involves the removal of existing contaminated sediment in the basin. On October 18, 2012, the Santa Monica Bay Restoration Commission (SMBRC) Governing Board approved a recommendation to have the State award \$2 million in**

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Proposition 84 funding for portions of this project. In addition, this project was included in the Los Angeles Region's Proposition 84 Implementation Grant application with a funding request of \$1.5 million. Proposition 84 grant recipients will be announced in late summer/early fall of 2013. Construction of the project is estimated to cost \$7 million and expected to start in 2014.

- **Tujunga Wash Greenway and Stream Restoration Phase II.** The project will construct a naturalized stream with native habitat along a 3/4-mile reach of the wash from Vanowen Street to Sherman Way in the City of Los Angeles. The proposed restoration would seek to mimic a small tributary in this region by diverting urban runoff through a naturalized stream course along the bank of the Tujunga Wash. The project will provide water quality enhancements, ground water recharge, native and riparian vegetation, pedestrian paths, and educational signage. The U.S. Army Corps of Engineers (USACE) is financing \$4.8 million through Stimulus funding while the LACFCD is financing the remaining \$2.1million. Construction of the project was completed in July 2012.
- **Arroyo Seco Feasibility Study** is being conducted by the USACE at the request of the LACFCD. The study will lay the framework for future restoration efforts that would focus on restoration of the natural hydrologic functioning of the watershed, management of water resources and water quality improvement, habitat restoration, and improved recreational opportunities and open space. The total project cost is \$2.4 million over the duration of the study, with 50% funded by local sources and 50% funded by Federal appropriations. The Baseline Conditions phase of the study has been completed and the Feasibility Scoping Meeting was held in September 2011. The Alternatives Analysis Phase is progressing with funding received from the local share in Fiscal Year 11-12. The study may be subject to the nationwide changes in the USACE's study process that may help to streamline the completion of the study. On May 8, 2013, the LACFCD sent a letter to the USACE to request the provisions of the clause in the Cost-Sharing Agreement to accelerate non-Federal funds by the LACFCD for completion of the study.
- **The Sun Valley Feasibility Study** focuses on a highly urban watershed tributary to the Los Angeles River located approximately 14 miles northwest of downtown Los Angeles. The community in the watershed has experienced severe, chronic flooding for well over 40 years. The area also suffers from poor water quality and a lack of recreational opportunities, aesthetics, and wildlife habitat. The USACE is conducting the Study with the LACFCD being the lead local sponsor. The study will focus on environmental restoration, water quality improvement, flood mitigation, and other related issues within the watershed. The total project cost is approximately \$2.5 million over 3 years, with 50% of the funding coming from local sources and 50% from the federal level. Federal funding limitations have extended the duration for completion of the Study. The Corps of Engineers has a completed draft of the Baseline Conditions phase of the Study and it is

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currently being reviewed for approval. Upon approval, the Corps of Engineers will proceed the Alternative Analysis phase of the Study. The Study may be subject to the nationwide changes in the USACE's study process that may help to streamline the completion of the Study.

- **Water Augmentation Study (WAS).** The LACFCD continued to be an active partner in the WAS, a project managed by the LA/SG Rivers Watershed Council with major funding provided by the U.S. Bureau of Reclamation, City of Los Angeles, and the Metropolitan Water District . Since 2000, the project has studied the safety and feasibility of stormwater infiltration for both surface water quality and water supply improvement. Following two successful earlier phases of the project, a demonstration green street with an infiltration gallery was constructed on Elmer Avenue in the under-served community of Sun Valley and was monitored. The LACFCD loaned a field crew and camera robot to the Watershed Council to scope the Elmer Ave infiltration gallery in June 2012. The LACFCD continued to participate on the WAS Technical Advisory Committee, which met quarterly.

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TABLE 2

Program Element	Expenditures in Previous Fiscal Year 2012-13	Estimated Amount Needed to Implement Order R4-2012-0175 For Fiscal Year 2013-14
1. Program management a. Administrative costs b. Capital costs	914,532	955,258
2. Public Information and Participation a. Public Outreach/Education b. Employee Training c. Corporate Outreach d. Business Assistance	6,044 1,900,982 48,827	6,346 2,000,000 51,227
3. Industrial/Commercial inspection/ site visit activities	N/A	N/A
4. Development Planning	N/A	N/A
5. Development Construction a. Construction inspections	N/A	N/A
6. Public Agency Activities a. Maintenance of structural and treatment control BMPs b. Municipal street sweeping c. Catch basin cleaning d. Trash collection/recycling e. Capital costs f. Other	48,466 848,820 37,219 1,212,585 715,417 7,634 6,095,168	50,889 891,388 37,822 1,273,215 750,946 20,000 6,399,926
7. IC/ID Program a. Operations and Maintenance b. Capitol Costs	296,650 2,710,665	325,000 2,846,198
8. Monitoring	812,919	857,760
9. Other*	23,297,749	25,483,297
10. TOTAL	38,953,676	41,949,273

* Includes costs for preparing NOIs for the WMPs and EWMPs, TMDL implementation and other projects with water quality benefits.

List any supplemental dedicated budgets for the above categories:

This amount (\$1,900,000) includes funding sources outside of Flood Control District Benefit Assessment funds. Approximately \$1,312,330 in Solid Waste funds was spent on the secondary school education programs, coordinating used oil and oil filter collection events, and media relations efforts.

List any activities that have been contracted out to consultants/other agencies:

- **Environmental education programs for secondary schools, used motor oil and oil filter recycling program;**
- **Portions of the illicit discharge programs; Cleaning of trash free channel inverts, catch basins and clearing of channel right-of-ways (ROWs);**
- **Los Angeles River trash and debris collection;**
- **Flood facilities sweeping, vacuum & jetting services;**
- **Emergency and non-emergency cleanup of hazardous materials;**
- **Maintenance of the Marie Canyon Disinfection Project;**
- **Pump pulling and machine repair for maintenance of Low Flow Diversions.**

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II. Receiving Water Limitations (Part 2)

- A. Are you aware, or have you been notified, of any discharges from your MS4 that cause or contribute to a condition of nuisance or to the violation of any applicable water quality standards? Yes ☐ No ☒
- B. Has the Regional Board notified you that discharges from your MS4 are causing or contributing to an exceedance of water quality standards? Yes ☐ No ☒
- C. If you answered Yes to either of the above questions, you must attach a Receiving Water Limitations (RWL) Compliance Report. The Report must include the following:
1. A description of the pollutants that are in exceedance and an analysis of possible sources;
 2. A plan to comply with the RWL (Permit, Part 2);
 3. Changes to the SQMP to eliminate water quality exceedances;
 4. Enhanced monitoring to demonstrate compliance; and
 5. Results of implementation.

III. SQMP Implementation (Part 3)

- A. Has your agency implemented the SQMP and any additional controls necessary to reduce the discharges of pollutants in storm water to the maximum extent practicable? Yes ☒ No ☐
- B. If your agency has implemented additional or different controls than described in the countywide SQMP, has your agency developed a local SQMP that reflects the conditions in its jurisdiction and specifies activities being implemented under the appropriate elements described in the countywide SQMP? Yes ☐ No ☐

N/A. The LACFCD, jointly with the County of Los Angeles, developed the six programs prescribed by the SQMP. It is the responsibility of individual Permittees and/or the Watershed Management Committees (WMC) to develop a local SQMP.

- C. Describe the status of developing a local SQMP in the box below.

N/A

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- D. If applicable, describe an additional BMP, in addition to those in the countywide SQMP that your city has implemented to reduce pollutants in storm water to the maximum extent practicable.

End of Pipe Nets, CDS units, Catch Basin Basket Inserts, and Catch Basin Clean Screens were installed at various locations. Metal shakers and portable equipment washers are placed within the project sites to eliminate potential dirt, dust, and debris from trucks & equipment from leaving construction sites.

- E. Watershed Management Committees (WMCs)

1. Which WMC are you in?

The LACFCD is represented in all of them.

2. Who is your designated representative to the WMC?

- **TJ Moon - Ballona Creek & Urban Santa Monica Bay WMC**
- **Bill Johnson - Dominguez Channel/Los Angeles Harbor WMC**
- **Giles Coon - Malibu Creek & Rural Santa Monica Bay WMC**
- **Jolene Guerrero - Los Angeles River WMC**
- **Jolene Guerrero - San Gabriel River WMC**

3. How many WMC meetings did you participate in last year?

The LACFCD was represented at each of the 12 meetings that took place during the last fiscal year.

4. Describe specific improvements to your storm water management program as a result of WMC meetings.

Although the 2012 MS4 Permit no longer requires WMCs, the groups have continued to meet. The meetings facilitated cooperation as well as exchange of relevant information and experiences among the permittees, which led to a general improvement of the LACFCD's stormwater program.

5. Attach any comments or suggestions regarding your WMC.

None at this time.

- F. Storm Water Ordinance

1. Have you adopted a storm water and urban runoff ordinance to enforce all requirements of Order 01-182?

Yes ☒

No ☐

If not, describe the status of adopting such an ordinance.

N/A

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2. If yes, have you already submitted a copy of the ordinance to the Regional Board? Yes ☒ No ☐
If not, please attach a copy to this Report.
3. Were any amendments made to your storm water ordinance during the last fiscal year? Yes ☐ No ☒
If yes, attach a copy of amendments to this Report.

G. Discharge Prohibitions

1. List any non-storm water discharges you feel should be further regulated:

Sources of discharges outside of the MS4 Permittees' jurisdiction or authority that exceed water quality standards. These discharges, including the following, should be held to the same standards as the MS4 Permittees:

- U.S. Forest Service and California park lands discharges (are these non-storm water discharges?)
- Wastewater treatment plants that discharge into the Los Angeles and San Gabriel Rivers
- CERCLA cleanup discharges
- Caltrans properties and highways discharges
- Schools and other Phase II permittees discharges

2. List any non-storm water discharges you feel should be exempt, and provide an explanation for each:

None at this time.

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IV. Special Provisions (Part 4)**A. Public Information and Participation (Part 4.B)**

In addition to answering the following questions, attach a summary of all storm water education activities that your agency conducted or participated in last year.

See Attachment B**1. No Dumping Message**

- a) How many storm drain inlets does your agency own?

85,863 Catch basin openings

- b) How many storm drain inlets were marked with a no dumping message in the last fiscal year?

17,560 Catch basin openings

- c) What is the total number of storm drain inlets that are legibly marked with a no dumping message?

85,863 (ALL) Catch basin openings

If this number is less than the number in question 1.b, describe why all inlets have not been marked, the process used to implement this requirement, and the expected completion date.

N/A

- d) How many public access points to creeks, channels, and other water bodies within your jurisdiction have been posted with no dumping signage in the past year?

All Flood Control facilities with public access points are posted with "No Dumping" signs.

Describe your agency's status of implementing this requirement by the date required in Order No. 01-182.

All public access points are posted with "No Dumping" signs. Flood Maintenance Division personnel note any missing or defaced signs during routine inspections and reposted signs as necessary.

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2. Reporting Hotline

- a) Has your agency established its own hotline for reporting and for general storm water management information? Yes ☒ No ☐
- b) If so, what is the number? **1(888) CLEAN LA (1-888-253-2652)**
- c) Is this information listed in the government pages of the telephone book? Yes ☒ No ☐
- d) If no, is your agency coordinated with the countywide hotline? **N/A**
- e) Do you keep record of the number of calls received and how they were responded to? Yes ☒ No ☐
- f) How many calls were received in the last fiscal year?
31,000 (shared hotline with County of Los Angeles)
- g) Describe the process used to respond to hotline calls.

Illegal dumping calls are routed to LACDPW Dispatch operators who log the call and forward the information to the appropriate copermittee operations coordinator, or if the call's origin is within the jurisdiction of LACDPW, a work order is generated and sent to appropriate LACDPW staff. LACDPW Environmental Programs Division staff provided live responses to callers in English and Spanish. Pre-recorded messages are available in English and Spanish, delivering information on Stormwater, HHW/E-Waste, Used Motor Oil, Water Conservation, and Smart Gardening programs.
- h) Have you provided the Principal Permittee with your current reporting contact information? **N/A**
- i) Have you compiled a list of the general public reporting contacts for all Permittees and posted it on the www.888CleanLA.com web site (*Principal Permittee only*)? Yes ☒ No ☐
If not, when is this scheduled to occur? **N/A**

3. Outreach and Education

- a) Describe the strategy developed to provide outreach and bilingual materials to target ethnic communities. Include an explanation of why each community was chosen as a target, how program effectiveness will be determined, and status of implementation. (*Principal Permittee only*)

Although no longer the Principal Permittee, pursuant to the 2012 Los Angeles MS4 Permit, the LACFCD continued to implement those Principal Permittee requirements per the 2001 Permit. The LACFCD jointly implemented several components of the PIPP in partnership with the County.

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During the Used Oil Payment Program OPP Cycle 2 (OPP Cycle 2), the LACFCD hosted two used motor oil collection events in Montebello and Monterey Park. A total of 975 gallons of used motor oil and 280 used oil filters were collected from 246 Do-It-Yourselfers (DIYers). We also provided an extra drum at all of these events to collect contaminated used motor oil from DIYers. As a result, we collected 130 gallons of contaminated used motor oil. Five filter exchange events were conducted at the following O'Reilly stores: La Puente, Long Beach, El Monte, Covina, and Torrance. A total of 816 gallons of used motor oil and 310 used oil filters were collected from 292 DIYers.

Participants who recycled their used motor oil and used oil filters received free used motor oil and used oil filter containers, shop towels, oil funnels, and a new oil filter in exchange for their old filter. In addition, used oil filter pickups were conducted at 37 participating O'Reilly stores. A total of 25,000 used oil filters were recycled through this program.

The media campaign promoted used motor oil/oil filter recycling events with television, radio, and newspaper ads. The ads were broadcasted in English, Spanish, and Mandarin. The media campaign targeted Caucasian, African-American, Hispanic, Chinese, Filipino, and Cambodian DIYer markets within Los Angeles County. Some of the media outlets included in the FY 2012-13 campaign are as follows: KLAX-FM 97.9; *Pasadena Star News*; *San Gabriel Valley Tribune*; *La Opinion*; KMEX-TV Channel 34; KSCI/LA-18; *Weekend Balita*; and *Serey Pheap*. This media campaign achieved approximately 40,811,000 paid media impressions and 9,314,000 added-value impressions. We also conducted one interview on KMEX-TV Spanish language television station, which garnered 25,750 media impressions.

Additional outreach efforts were conducted with 60 Community Based Organizations (CBOs) and local businesses during the OPP Cycle 2 including: local government agencies, public libraries, community centers, schools, gas stations, recycling centers, faith-based organizations, ethnic organizations, auto-related businesses, and the LA County Board of Supervisors' district offices. A total of 4,250 flyers were circulated through the CBO campaign, reaching an estimated 112,170 residents.

A post-wave analysis was conducted targeting the general population (Caucasians and African-Americans), Hispanic, and Chinese markets (Attachment C). The intercept surveys were conducted at the collection events, special events, as well as auto parts stores in Los Angeles County. The results of the post-wave were compared to those from the previous grant cycles in order to measure trends and changes in awareness levels for advertising, Certified Collection Centers (CCC) and hotline usage, and other determining factors for used motor oil and used oil filter recycling

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behavior, and attitudes of the program.

The survey results indicated a significant increase in advertising awareness levels among the Chinese market (48% to 71%) and a slight improvement among the Hispanic market (64% to 67%), in comparison to last year's survey results. The campaign is holding steady among the General Market (39% to 37%), although awareness levels are much lower in comparison to the other two markets. CCC usage to recycle used motor oil continues to drop among the General Market (58% to 45%). Also, almost two-thirds of Chinese respondents recycled their used motor oil at a CCC (from 61% to 65%). Hispanics use of CCCs increased minimally and ranked highest in CCC usage among the three segments, (69% to 70%).

During the next grant cycle, we will strive to increase awareness specifically among the Chinese and Hispanic markets through print and radio advertisement.

Staff attended three community events promoting the used motor oil and used oil filter recycling program: Sabor De Mexico Lindo in Huntington Park, Lunar New Year Festival in Alhambra, and Fiesta Broadway in Los Angeles. A prize wheel was offered at each event. Participants that completed the survey were given the opportunity to spin the prize wheel for a chance to win a full set of functional items, consisting of a used oil container, used oil filter container, a shop towel, and an oil funnel. Approximately 1,500 residents visited the campaign booths to receive information on used motor oil and used oil filters. Residents were provided with a Household Hazardous Waste/Electronic Waste schedule, an upcoming recycling event flyer, and a tip sheet on used motor oil and used oil filter recycling.

- b) Did the Principal Permittee organize quarterly Public Outreach Strategy meetings that you were aware of?

Yes ☒ No ☐

How many Public Outreach Strategy meetings did your agency participate in last year?

Although no longer the Principal Permittee, the LACFCD hosted one quarterly meeting during this reporting period.

Explain why your agency did not attend any or all of the organized meetings.

N/A

Identify specific improvements to your storm water education program as a result of these meetings:

The LACFCD featured guest speakers at the July 25, 2012, quarterly meeting to provide information on the Los Angeles County Clean Water, Clean Beaches Measure, the California Tobacco Waste Program's cigarette butts pollution prevention campaign, and to promote the 2012 Coastal Cleanup Day event. The LACFCD shared resources such as collateral materials and public outreach strategies with co-permittees.

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List suggestions to increase the usefulness of quarterly meetings:

None.

If quarterly Public Outreach Strategy meetings were not organized, explain why not and when this requirement will be implemented (*Principal Permittee only*).

During this reporting period, some quarterly meetings were not scheduled due to the pending new NPDES Permit and the transition period after the 2012 NPDES Permit was adopted. Although no longer the Principal Permittee, the LACFCD will resume hosting the quarterly meetings during the next reporting period.

- c) Approximately how many impressions were made last year on the general public about storm water quality via print, local TV, local radio, or other media?

93 million impressions

- d) Describe efforts your agency made to educate local schools on storm water pollution.

The LACFCD and County provide resources and programs for in-school stormwater education to students enrolled in grades K-12 through classroom lesson plans, assembly presentations, technical assistance workshops, special events, and special projects.

The Generation Earth program offered Professional Development, Waste Reduction and Recycling, and Water Pollution Prevention workshops to teachers. More than 340 teachers attended the workshops reaching more than 30,560 students from 226 schools, potentially impacting 317,987 students. Generation Earth provided the necessary tools and support to teachers/students to create environmental service learning projects on school campuses. Generation Earth attended eight community events, reaching approximately 2,230 educators.

The 2013 Service Learning Celebration was held on April 11, 2013, at Walt Disney Studios in Burbank, California. Twelve schools participated with a group of student leaders attending the celebration. Each school team designed a presentation display to highlight their successful projects. A variety of projects were showcased at the event. Six projects focused on water related issues. Each school was honored with a recognition trophy from Generation Earth and a special guest, Ms. Cornelia Funke, an international author, presented each school with \$100 to fund future projects. Approximately 60 students attended the celebration.

The Streets to the Sea Challenge was not held this during this reporting period due to an abbreviated contract year. A new Request for Proposals is currently being drafted. It is anticipated that the Request for Proposals will be released in fall 2013.

The LACFCD and County served as a member of the steering

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committee for the annual Los Angeles County Environmental Education Fair (LAEFF) event, coordinated by the L.A. County Office of Education, other participating agencies, and stakeholders (Attachment D). Approximately 1,800 participants attended the event.

The LACFCD and County's elementary school education program, Environmental Defenders, began in December 2012 and reached 30,987 students at 78 schools. In addition, staff attended the following community events: LAEFF, Beverly Hills Earth Day, Cabrillo Marine Aquarium Earth Day, STAR Eco Station Children's Earth Day, Downey Kids Day, Santa Monica Festival, and SoRo Festival. Approximately 3,413 adults/children were reached with various environmental messages on the four Rs (Reduce, Reuse, Recycle, and Rethink), stormwater pollution, household hazardous waste, and water conservation. The LACFCD and County also participated in the 2012 Second District Children's Defense Fund Freedom Schools and 2013 Annual Summit Empowerment Congress.

In addition, through the Environmental Defenders program, two e-mail blasts were sent to 2,495 contacts in 2,179 schools with grades K-6 in Los Angeles County that are registered with the California Department of Education, reaching approximately 901,223 students. These e-mail blasts contained a link to the Teacher Resource Packet on the Environmental Defenders' website, which provides teachers with additional resources to reinforce the environmental messages in the classroom and promote the assembly.

- e) Did you provide all schools within each school district in Los Angeles County with materials necessary to educate a minimum of 50 percent of all school children (K-12) every 2 years on storm water pollution (*Principal Permittee only*)?

Yes ☒ No ☐

If not, explain why.

N/A

- f) Describe the strategy developed to measure the effectiveness of in-school educational programs, including assessing students' knowledge of storm water pollution problems and solutions before and after educational efforts (*Principal Permittee only*).

Teacher and student focus groups were conducted through the Generation Earth program in FY 2012-13 (Attachment E). Teacher and student focus groups will be conducted to evaluate the effectiveness of the Environmental Defenders program and the student's awareness of environmental issues during the next reporting period.

For Permit Years 2-5, attach an assessment of the effectiveness of in-school storm water education programs.

See Attachment F

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- g) What is the behavioral change target that was developed based on sociological data and other studies (*Principal Permittee only*)?

Below are the numerical behavioral change targets approved by the Regional Board in May 2002. The numerical targets reflect an anticipated reduction in polluting behaviors.

- **Dumping motor oil into storm drains to 2% from 6%.**
- **Littering to 10% from 13%.**
- **Hosing leaves and dirt into the street to 9% from 12%.**
- **Dumping directly into the storm drains to 2% from 5%.**
- **Dropping cigarette butts on the ground to 12% from 16%.**
- **Leaving dog droppings on the ground to 1% from 4%.**
- **Rinsing out paintbrushes into the street to 2% from 6%.**
- **Emptying a car ashtray into the street to 1% from 3%.**

If no target has been developed, explain why and describe the status of developing a target.

N/A

What is the status of meeting the target by the end of Year 5?

The LACFCD continued implementing public education campaigns designed to mitigate stormwater pollution in the County of Los Angeles and improve inland and coastal communities.

To evaluate the effectiveness of the campaign, we conducted a baseline study in 1997, and conducted Countywide segmentation studies in 2001 and 2005, followed by annual surveys. The most recent survey was conducted in 2008, and survey findings were reported in the FY 08-09 reporting period.

The next survey will be conducted when the next Countywide stormwater public education program contract is approved by the County Board of Supervisors.

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4. Pollutant-Specific Outreach

- a) Attach a description of each watershed-specific outreach program that your agency developed (*Principal Permittee only*). All pollutants listed in Table 1 (Section B.1.d.) must be included.

See Attachment G

- b) Did your agency cooperate with the Principal Permittee to develop specific outreach programs to target pollutants in your area? **N/A**
- c) Did your agency help distribute pollutant-specific materials in your city? **N/A**
- d) Describe how your agency has made outreach material available to the general public, schools, community groups, contractors and developers, etc...

The LACFCD provided campaign collateral to co-permittees (Attachment H). Also, the LACFCD provided campaign collateral for various community and outreach events coordinated by other LACDPW divisions, Board of Supervisors, and outside agencies.

Stormwater pollution prevention materials were also circulated to elementary and secondary school students, school administrators, and parents through the County's Environmental Defenders and Generation Earth programs. Additionally, the LACFCD distributed collateral materials through CBOs, special events, and participated in 185 community events and conferences.

5. Businesses Program

- a) Briefly describe the Corporate Outreach Program that has been developed to target gas stations and restaurant chains (*Principal Permittee only*).

The LACFCD conducted corporate outreach the previous two reporting periods and has met the permit requirement.

- b) How many corporate managers did your agency (*Principal Permittee only*) reach last year? **None**
- c) What is the total number of corporations to be reached through this program (*Principal Permittee only*)? **7**
- d) Is your agency meeting the requirement of reaching all gas station and restaurant corporations once every two years (*Principal Permittee only*)? Yes ☒ No ☐

If not, describe measures that will be taken to fully implement this requirement.

N/A

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- e) Has your agency developed and/or implemented a Business Assistance Program? Yes ☐ No ☒
- If so, briefly describe your agency's program, including the number of businesses assisted, the type of assistance, and an assessment of the program's effectiveness.

N/A

6. Did you encourage local radio stations and newspapers to use public service announcements? Yes ☒ No ☐

How many media outlets were contacted?

All L.A. County media outlets were contacted through media wire services and/or direct contact.

Which newspapers or radio stations ran them?

PSAs and other earned media placements were aggressively pursued as a tactic of the LACFCD and County's Stormwater PIPP. During the reporting period, LACDPW stormwater/urban runoff messages appeared in the following media: *20 de Mayo*, *Eastern Publication Group*, *Hoy*, *Chinese LA Daily*, *World Journal*, *Auto World*, *El Clasificado*, *Impacto USA*, and *ChineseDaily.com*. The press releases promoted County-sponsored used motor oil and oil filter exchange events.

Who was the audience?

The audience included DIYers and members of the general public.

7. Did you supplement the County's media purchase by funding additional media buys? N/A
- Estimated dollar value/in-kind contribution: N/A
- Type of media purchased: N/A
- Frequency of the buys:
- Did another agency help with the purchase? N/A
8. Did you work with local business, the County, or other Permittees to place non-traditional advertising? Yes ☐ No ☒
- If so, describe the type of advertising.

9. Did you establish local community partnerships to distribute educational storm water pollution prevention material? Yes ☒ No ☐

Describe the materials that were distributed:

Approximately 4,250 flyers promoting used motor oil and used oil filter events were distributed by local businesses, libraries, and community organizations to promote the events through the CBO outreach component of the Used Motor Oil and Used Oil Filter Recycling program.

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Who were the key partners? **CBO partners for the Used Motor Oil and Oil Filter Recycling program included local government agencies, public libraries, community centers, schools, gas stations, recycling centers, faith-based organizations, ethnic organizations, and auto related businesses.**

Who was the audience (businesses, schools, etc.)?

The audience included DIYers and members of the general public.

10. Did you participate in or publicize workshops or community events to discuss storm water pollution? Yes ☒ No ☐
How many events did you attend? **185**

11. Does your agency have a website that provides storm water pollution prevention information? Yes ☒ No ☐
If so, what is the address? **www.CleanLA.com**

12. Has awareness increased in your community regarding storm water pollution? Yes ☒ No ☐
Do you feel that behaviors have changed? Yes ☒ No ☐
Explain the basis for your answers. Include a description of any evaluation methods that are used to determine the effectiveness of your agency's outreach.

An increase in awareness and knowledge about the causes of pollution and positive behavior change occurred among County residents. Awareness and behavior change were achieved in the Chinese community verified by a self-reported increase in awareness and usage of used motor oil Certified Collection Centers.

13. How would you modify the storm water public education program to improve it on the City or County level?

No suggestions at this time.

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B. Industrial/Commercial Facilities Program

1. Critical Source Inventory Database

Did you (individually or jointly) update the Database for Critical Sources Inventory? Yes ☐ No ☐

Comments/Explanation/Conclusion: **N/A**

2. Inspection Program

Provide the reporting data as suggested in the following tables. **N/A**

Category	Initial Number of Facilities at the start of cycle proposed for inspection by categories (after the initial year, the updated number based on the new data)	Number of facilities inspected in the current reporting year	% Completed at the time of this report for present cycle (from the initial value, and from the updated value after first cycle)	Total number since permit adoption
Landfills				
TSDf				
Auto*				
RGO				
Restaurants				
Tier 1				
Tier 2				
Mandatory				
Comments/Explanation/Conclusion:				

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Category	Number of facilities inspected by category in this reporting year	Number of facilities identified as adequately implementing BMPs as specified in this reporting year	% adequately implementing out of total in this reporting year	Number of facilities required to implement or upgrade in this reporting year	Number of facilities inspected by category in this reporting cycle	Number of facilities identified as adequately implementing BMPs as specified in this reporting cycle	% adequately implementing out of total in this reporting cycle	Number of facilities required to implement or upgrade in this reporting cycle	Total Number during this permit adequately implementing	Total Number during this permit required to implement or upgrade
Landfills										
TSDf										
Auto										
RGO										
Restaurant										
Tier 1										
Tier 2										
Mandatory										

Comments/Explanation/Conclusion: **N/A**

Los Angeles County Municipal Storm Water Permit (Order 01-182)**Individual Annual Report Form****Attachment U-4****4. Enforcement Activities**Provide the reporting data as suggested in the following tables. **N/A**

Enforcement Actions by categories (e.g. Warning letter, NOV, referral to D.A., etc.)	Number of facilities issued enforcement actions in the current reporting year	Number of facilities issued enforcement actions in the current reporting cycle	Number of facilities (re)inspected due to enforcement actions in current reporting year	Number of facilities (re)inspected due to enforcement actions in current reporting cycle	Number of facilities brought into compliance in the current reporting year	Number of facilities brought into compliance in current reporting cycle	Total number of enforcement actions since permit adoption (by category)
Information Notice							
Notice of Non-Compliance							
Notice of Violation							
Referral							
Other							

Facilities by category	Number of Warning letters	Number of NOVs	Number of Referral	Number of Other
Landfills				
Auto				
RGO				
Restaurants				
Tier 1				
Tier 2				
Mandatory				
Comments/Explanation/Conclusion:		N/A		

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5. Program Implementation Effectiveness Assessment

Please give a brief assessment of the implementation of the program in removing pollutants from the storm water discharges. Please provide an explanation. Suggested improvements or adjustments based on the knowledge gained through this reporting period activities must be reflected in a change in the SQMP, if warranted. **N/A**

Highly Effective ☐

Somewhat Effective ☐

Non-effective ☐

Comments/Explanation/Conclusion:

N/A

6. You must also submit a quarterly electronic submittal of your Industrial/Commercial Facilities Program activities.

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C. Development Planning Program (Part 4.D)

1. Does your agency have a process to minimize impacts from storm water and urban runoff on the biological integrity of natural drainage systems and water bodies in accordance with requirements under CEQA, Section 404 of the CWA, local ordinances, and other legal authorities? **N/A** Yes ☐ No ☐

Attach examples showing how storm water quality impacts were addressed in environmental documents for projects over the past year.

N/A

2. Does your agency have procedures to include the following requirements in all priority development and redevelopment projects: **N/A**

a) Maximize the percentage of permeable surfaces to allow more percolation of storm water into the ground? Yes ☐ No ☐

b) Minimize the quantity of storm water directed to impermeable surfaces and the MS4? Yes ☐ No ☐

c) Minimize pollution emanating from parking lots through the use of appropriate treatment control BMPs and good housekeeping practices? Yes ☐ No ☐

d) Provide for appropriate permanent measures to reduce storm water pollutant loads from the development site? Yes ☐ No ☐

3. List the types and numbers of BMPs that your agency required for priority projects to meet the requirements described above.

N/A

4. Describe the status of the development or implementation of peak flow controls in Natural Drainage Systems.

N/A

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5. Has your agency amended codes and/or ordinances to give legal effect to the SUSMP changes required in the Permit? **N/A** Yes ☐ No ☐
6. Describe the process your agency uses to include SUSMP design standards in new development and redevelopment project approvals.
N/A
7. How many of each of the following projects did your agency review and condition to meet SUSMP requirements last year? **N/A**
- a) Residential
 - b) Commercial
 - c) Industrial
 - d) Automotive Service Facilities
 - e) Retail Gasoline Outlets
 - f) Restaurants
 - g) Parking Lots
 - h) Projects located in or directly adjacent to or discharging directly to an environmentally sensitive area
 - i) Total number of permits issued to priority projects
8. What is the percentage of total development projects that were conditioned to meet SUSMP requirements?
N/A
9. How has your agency prepared to reduce the SUSMP threshold for industrial/commercial facilities to 1 acre from 100,000 square feet in 2003?
N/A

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10. After 2003, how many additional projects per year will require/did require implementation of SUSMP requirements as a result of the lower threshold?

N/A

11. Does your agency participate in an approved regional or sub-regional storm water mitigation program to substitute in part or wholly SUSMP requirements for new development? Yes ☐ No ☐

N/A

12. Has your agency modified its planning procedures for preparing and reviewing CEQA documents to consider potential storm water quality impacts and provide for appropriate mitigation? Yes ☐ No ☐ **N/A**

If no, provide an explanation and an expected date of completion.

N/A

13. Did your agency update any of the following General Plan elements in the past year? **N/A**

- | | |
|-----------------|--|
| a) Land Use | Yes <input type="checkbox"/> No <input type="checkbox"/> |
| b) Housing | Yes <input type="checkbox"/> No <input type="checkbox"/> |
| c) Conservation | Yes <input type="checkbox"/> No <input type="checkbox"/> |
| d) Open Space | Yes <input type="checkbox"/> No <input type="checkbox"/> |

If yes, please describe how watershed and storm water quality and quantity management considerations were included.

14. How many targeted staff were trained last year? **N/A**
15. How many targeted staff are trained annually? **N/A**
16. What percentage of total staff are trained annually? **N/A**
17. Has your agency developed and made available development planning guidelines? Yes ☐ No ☐ **N/A**
18. If no, what is the expected date that guidelines will be developed and available to developers? **N/A**

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19. What is the status of completion of the technical manual for siting and design of BMPs for the development community?

N/A

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D. Development Construction Program

1. Describe your agency's program to control runoff from construction activity at all construction sites within its jurisdiction.

N/A

2. Does your agency require the preparation, submittal, and implementation of a Local Storm Water Pollution Prevention Plan (Local SWPPP) prior to the issuance of a grading permit for all sites that meet one or all of the following criteria? **N/A**

a) Will result in soil disturbance of one acre or greater Yes ☐ No ☐

b) Is within, directly adjacent to, or is discharging directly to an environmentally sensitive area Yes ☐ No ☐

c) Is located in a hillside area Yes ☐ No ☐

3. Attach one example of a local SWPPP

N/A

4. Describe the process your agency uses to require proof of filing a Notice of Intent for coverage under the State General Construction Activity Storm Water permit and a certification that a SWPPP has been prepared prior to issuing a grading permit?

N/A

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5. How many building/grading permits were issued to sites requiring Local SWPPPs last year? **N/A**
6. How many building/grading permits were issued to sites requiring coverage under the General Construction Activities Storm Water Permit last year? **N/A**
7. How many building/grading permits were issued to construction site less than one acre in size last year? **N/A**
8. How many construction sites were inspected during the last wet season? **N/A**
9. Complete the table below. **N/A**

Type of Violation	# of Violations	% of Total Inspections	# of Follow-up Inspections	# of Enforcement Actions
Off-site discharge of sediment				
Off-site discharge of other pollutants				
No or inadequate SWPPP				
Inadequate BMP/SWPPP implementation				

10. Describe the process for taking enforcement actions against construction site violations, including the types of actions that are taken.

N/A

11. Describe the system that your agency uses to track the issuance of grading permits.

N/A

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E. Public Agency Activities (Part 4.F)

1. Sewage System Maintenance, Overflow, and Spill Prevention (only applicable to agencies that own and/or operate a sanitary sewer system)

- a) Has your agency developed and implemented a response plan for sanitary sewer overflows that includes the requirements in Order 01-182? **N/A** Yes ☐ No ☐
- b) How many sanitary sewer overflows occurred within your jurisdiction? **N/A**
- c) How many did your agency respond to? **N/A**
- d) Did your agency investigate all complaints received? **N/A** Yes ☐ No ☐
- e) How many complaints were received? **N/A**
- f) Upon notification, did your agency immediately respond to overflows by containment? **N/A** Yes ☐ No ☐
- g) Did your agency notify appropriate sewer and public health agencies when a sewer overflowed to the MS4? **N/A** Yes ☐ No ☐
- h) Did your agency implement a program to prevent sewage spills or leaks from sewage facilities from entering the MS4? **N/A** Yes ☐ No ☐

If so, describe the program:

N/A

- i) Did your agency implement a program to identify, repair, and remediate sanitary sewer blockages, exfiltration, overflow, and wet weather overflows from sanitary sewers to the MS4? **N/A** Yes ☐ No ☐

If so, describe the program:

N/A

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2. Public Construction Activities Management

- a) What percentage of public construction sites 5 acres or greater in size did your agency obtain coverage under the State of California General Construction Activities Storm Water Discharge Permit? **100%**
- b) Give an explanation for any sites greater than 5 acres that were not covered:
- N/A**
- c) What is the total number of active public construction sites? **8**
How many were 5 acres or greater in size? **10**
- d) (After March, 2003) Did your agency obtain coverage under the State of California General Construction Activities Storm Water Discharge Permit coverage for public construction sites for sites one acre or greater? Yes ☒ No ☐

3. Vehicle Maintenance/Material Storage Facilities/Corporation Yards Management

- a) Did your agency implement pollution prevention plans for each public vehicle maintenance facility, material storage facility, and corporation yard? Yes ☒ No ☐
-

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- b) Briefly describe how your agency implements the following, and any additional, BMPs to minimize pollutant discharges in storm water:

(1) Good housekeeping practices

All sites regularly maintain storm drain inlets and grounds to keep them debris-free.

Parking lots at LACFCD maintenance yards are inspected twice a month and swept at least once a month.

The LACFCD emphasizes extensive education and training of field staff through routine tailgate meetings where good housekeeping practices such as proper disposal of trash and waste are discussed. Furthermore, the LACFCD stresses the importance of maintaining records and training materials. In addition, inspections of maintenance yards are also conducted on a regular basis and above and beyond the permit requirements. Results of the inspections are reviewed with facility managers for each yard. As part of its Clean Yards Program, LACDPW's WMD staff conducted 34 inspections of LACFCD facilities between July 2012 and June 2013.

(2) Material storage control

Outdoor material, and all aggregate concrete bunkers are covered properly with tarps or canopies.

Berms have been constructed and fire hoses filled with sand have been placed at the edges to prevent sediment displacement due to runoff.

Material storage is done indoors in some instances.

The LACFCD conducts extensive training on proper storage and disposal of waste materials indoors and outdoors.

(3) Vehicle leaks and spill control

Maintenance facilities such as those for auto fueling and repairs are equipped with spill kits to ensure prompt cleanup of leaks and spills. In addition all wastes are properly labeled and separated.

Furthermore, drip pans, absorbent pads and kitty litter (powdered clay) are used under leaky vehicles until repair is completed. Liquid spills are prevented by secondary containment. The maintenance facilities added spill pans

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underneath permanent parking stalls for maintenance trucks.

The LACFCD emphasizes keeping an education and spill response plan in place throughout the various LACFCD facilities, so employees are familiar with proper procedures. These procedures are vital for employees to follow once an emergency occurs.

(4) Illicit discharge control

Sand bags or other containment devices are placed around catch basin inlets at storage facilities to prevent illicit discharges. LACFCD responds to all reports of illicit discharges to the storm drain system. LACFCD contains the spill and calls a licensed vendor for cleanup.

The LACFCD provides extensive training and instructions on prevention of and response to illicit discharges.

- c) Are all Permittee owned and/or operated vehicle/equipment wash areas self-contained, covered, equipped with a clarifier, and properly connected to the sanitary sewer? Yes ☒ No ☐
If not, what is the status of implementing this requirement?

Major maintenance yards have self-contained, covered vehicle/equipment wash areas equipped with clarifiers that are connected to the sanitary sewer. Other maintenance yards take their vehicles to a local car wash or to a main yard with a properly equipped wash area.

- d) How many Permittee owned and/or operated vehicle/equipment wash areas are scheduled to be redeveloped to include the BMPs listed above? **0**

4. Landscape and Recreational Facilities Management

- a) Has your agency developed a standardized protocol for the routine and non-routine application of pesticides, herbicides (including pre-emergents), and fertilizers? Yes ☒ No ☐

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Briefly describe this protocol:

The LACFCD follows all Federal, State and local laws pertaining to the purchase, storage and use of pesticides and herbicides. The County of Los Angeles's Agricultural Commissioner/Weights and Measures (ACWM) provides training and certifies pertinent LACFCD personnel in pesticide application on ground surfaces. In some cases, outside licensed vendors or landscaping contractors are retained. They are required to follow all applicable laws, regulations, and protocols as described in their contracts.

- b) How does your agency ensure that there is no application of pesticides or fertilizers immediately before, during, or immediately after a rain event or when water is flowing off the area to be applied?

The LACFCD maintenance supervisors oversee the timing of these applications, to avoid potential discharges due to rain or sprinklers. Their field staff is adequately trained during the annual storm water pollution prevention tailgate meetings on the proper use and storage of pesticides, herbicides and fertilizers. The LACFCD schedules these activities well in advance, inclusive of spot spraying, and applications are only scheduled during dry weather. In addition, weather forecasts are considered before any application. The LACFCD enforces these existing policies with its contractors to ensure that herbicides are sprayed in a proper manner. In addition, these requirements are included in LACFCD construction documents, plans, and specifications.

- c) Are any banned pesticides, herbicides, fungicides, or rodenticides stored or applied in your agency's jurisdiction that you know of? Yes ☐ No ☒

If so, list them:

N/A

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- d) What percentage of your agency's staff that apply pesticides are certified by the California Department of Food and Agriculture, or are under the direct supervision of a certified pesticide applicator? **100%**
- e) Describe procedures your agency has implemented to encourage retention and planting of native vegetation and to reduce water, fertilizer, and pesticide needs:

The LACFCD typically incorporates drought tolerant plants, native vegetation and other vegetative species known to thrive in a particular climate zone into our landscaping projects. In most cases mulch is used to retain moisture and prevent weed growth.

5. Storm Drain Operation and Management

- a) Did your agency designate catch basin inlets within its jurisdiction as Priority A; Priority B; and Priority C? Yes ☒ No ☐
- b) How many of each designation exist in your jurisdiction?
- | | |
|-------------|---------------|
| Priority A: | 1,610 |
| Priority B: | 446 |
| Priority C: | 83,807 |

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- c) Is your city subject to a trash TMDL? Yes ☒ No ☐
- d) If yes, describe the activities and/or implementation measures that your agency conducted pursuant to the TMDL and any other trash reduction efforts that occurred.

The LACFCD has implemented the following efforts in their routine maintenance operations.

- **“Trash Free” Channel Contracts for cleaning channel inverts of trash and debris.**
- **Contracts for Channel Clearing ROW to remove trash and debris.**
- **LA River Trash and Debris Collection Contract to remove trash and debris at the Southern Sector of the River.**
- **Maintain trash booms on Los Angeles River, Dominguez Channel, Wilmington Drain, Los Cerritos Channel and Ballona Creek**
- **Catch Basin Cleanout Contracts to clean all catch basins.**
- **Catch Basin Maintenance Contracts to clean and maintain catch basins retrofitted with trash excluder devices.**
- **In addition, the LACFCD has issued permits to various co-Permittees for installation of catch basin screens and inserts on LACFCD facilities.**
- **A billboard campaign about stormwater pollution prevention generated over 7,400,000 impressions.**

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- e) How many times were all Priority A basins cleaned last year? **4**
- f) How many times were all Priority B basins cleaned last year? **2**
- g) How many times were all Priority C basins cleaned last year? **1**
- h) How much total waste was collected in tons from catch basin clean-outs last year? **1054.4**
- i) Attach a record of all catch basins in your jurisdiction. This shall identify each basin as City or County owned, and Priority A, B, or C. For all basins that are owned and operated by your agency, include dates that each was cleaned out over the past year.
Records for catch basin maintenance are too voluminous to attach to this report; they can be provided separately upon request.
- j) Did your agency place and maintain trash receptacles at all transit stops within its jurisdiction. **N/A** Yes ☐ No ☐
- k) How many new trash receptacles were installed last year? **N/A**
- l) Did your agency place special conditions for events that generated substantial quantities of trash and litter including provisions that:
- (1) Provide for the proper management of trash and litter generated from the event? **N/A** Yes ☐ No ☐
- (2) Arrange for temporary screens to be placed on catch basins? **N/A** Yes ☐ No ☐
- (3) Or for catch basins in that area to be cleaned out subsequent to the event and prior to any rain? **N/A** Yes ☐ No ☐
- m) Did your agency inspect the legibility of the catch basin stencil or labels? Yes ☒ No ☐
What percentage of stencils were legible? **over 90%**

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n) Were illegible stencils recorded and re-stenciled or re-labeled within 180 days of inspection? Yes ☒ No ☐

o) Did your agency visually monitor Permittee-owned open channel storm drains and other drainage structures for debris at least annually and identify and prioritize problem areas of illicit discharge for regular inspection? Yes ☒ No ☐

Is the prioritization attached?

Records are too voluminous to attach to this report; they can be provided separately upon request. Yes ☐ No ☒

p) Did your agency review its maintenance activities to assure that appropriate storm water BMPs are being utilized to protect water quality? Yes ☒ No ☐

What changes have been made?

No significant changes were made during this reporting period. The LACFCD continues to review all standard maintenance procedures and use of BMPs to assure that they are being utilized appropriately as part of an overall iterative and adaptive strategy to improve urban and storm runoff quality. New or improved BMPs are evaluated and may be implemented as a pilot study.

q) Did your agency remove trash and debris from open channel storm drains a minimum of once per year before the storm season? Yes ☒ No ☐

r) How did your agency minimize the discharge of contaminants during MS4 maintenance and clean outs?

The LACFCD utilizes manual labor for MS4 maintenance and cleanouts. Heavy machinery is utilized as needed. Contractors are responsible for minimizing the discharge of contaminants during these operations. Debris that falls is picked up by hand and tossed in with cleanout debris. In addition, the LACFCD followed all appropriate measures recommended in the California Stormwater Quality Association BMP Handbook to minimize the dispersal of contaminants.

s) Where is removed material disposed of?

Material is brought to a drying bed for moisture removal. Then, it is dumped into solid waste bins and transported to an authorized disposal facility center or legal dump sites.

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6. Streets and Roads Maintenance

a) Did your agency designate streets and/or street segments within its jurisdiction as one of the following:

- (1) Priority A – streets and/or street segments that are designated as consistently generating the highest volumes of trash and/or litter?

N/A

Yes ☐ No ☐

- (2) Priority B - streets and/or street segments that are designated as consistently generating moderate volumes of trash and/or litter?

N/A

Yes ☐ No ☐

- (3) Priority C – streets and/or street segments that are designated as generating low volumes of trash and/or litter?

N/A

Yes ☐ No ☐

b) Did your agency perform all street sweeping in compliance with the permit and according to the following schedule:

- (1) Priority A – These streets and/or street segments shall be swept at least two times per month?

N/A

Yes ☐ No ☐

- (2) Priority B - Each Permittee shall ensure that each streets and/or street segments is cleaned at least once per month?

N/A

Yes ☐ No ☐

- (3) Priority C – These streets and/or street segments shall be cleaned as necessary but in no case less than once per year?

N/A

Yes ☐ No ☐

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- c) Did your agency require that saw cutting wastes be recovered and disposed of properly and that in no case shall waste be left on a roadway or allowed to enter the storm drain? **N/A** Yes ☐ No ☐
- d) Did your agency require that concrete and other street and road maintenance materials and wastes be managed to prevent pollutant discharges? **N/A** Yes ☐ No ☐
- e) Did your agency require that the washout of concrete trucks and chutes only occur in designated areas and never into storm drains, open ditches, streets, or catch basins leading to the storm drain system? **N/A** Yes ☐ No ☐
- f) Did your agency train its employees in targeted positions (whose interactions, jobs, and activities affect storm water quality) regarding the requirements of the storm water management program to:
- (1) Promote a clear understanding of the potential for maintenance activities to pollute storm water? and Yes ☒ No ☐
- (2) Identify and select appropriate BMPs? Yes ☒ No ☐

7. Parking Facilities Management

- a) Did your agency ensure that Permittee-owned parking lots be kept clear of debris and excessive oil buildup and cleaned no less than 2 times per month and/or inspected no less than 2 times per month to determine if cleaning is necessary.
Some parking lots are swept as frequently as once per week. Yes ☒ No ☐
- b) Were any Permittee-owned parking lots cleaned less than once a month? Yes ☐ No ☒
How many? **N/A**

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8. Public Industrial Activities Management

- a) Did your agency, for all municipal activity considered an industrial activity under USEPA Phase I storm water regulations, obtain separate coverage under the State of California General Industrial Activities Storm Water Discharge Permit no later than December 31, 2001? **N/A** Yes ☐ No ☐
- b) Does your agency serve a population of less than 100,000 people? Yes ☐ No ☒

9. Emergency Procedures

- a) In case of real emergencies, did your agency repair essential public services and infrastructure in a manner to minimize environmental damage? Yes ☒ No ☐
- b) Were BMPs implemented to the extent that measures did not compromise public health and safety? Yes ☒ No ☐

10. Feasibility Study

- a) Did your agency cooperate with the County Sanitation Districts of Los Angeles County to prepare a study which investigates the possible diversion of dry weather flows or the use of alternative treatment control BMPs? Yes ☒ No ☐
- b) Did your agency review its individual prioritized list and create a watershed based priority list of drains for potential diversion and submit a listing of priority diversions to the Regional Board Executive Officer? Yes ☒ No ☐

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F. Illicit Connections and Illicit Discharges (IC/ID) Elimination Program (Part 4.G)

1. Attach a copy of your agency's IC/ID Elimination Implementation Program (Part 4.G.1.a.).

The LACFCD's IC/ID Elimination Program Manual can be downloaded at <http://dpw.lacounty.gov/wmd/NPDES/model links.cfm>, and an update is currently in progress and will be completed prior to WMP/EWMP approval.

2. Attach a map of your storm drain system showing all permitted connections (if available), and the locations of all illicit connections and discharges that occurred last year (Part 4.G.1.b). If your agency has not completed this requirement, describe the status of the development of a baseline map, including an expected completion date.

Permitted and suspected illicit connections are stored in the Maintenance Management System (MMS) (database) and spreadsheets. This list is over 500 pages and can be retrieved upon request, but is too large to include in this report. See questions 10 and 13 for further details.

3. Describe your enforcement procedures for eliminating illicit discharges and terminating illicit connections.

Illicit Connections:

- Step 1) LACDPW's Land Development Division (LDD) receives reports of suspected connections (Gray Sheets) from LACDPW's Flood Maintenance Division (FMD).**
- Step 2) The Gray Sheets are entered or documented in the MMS, and unique equipment (ID) numbers are assigned.**
- Step 3) LDD inspectors are assigned the Gray Sheets for investigation.**
- Step 4) Investigate (attempt to identify the source of the drain) and confirm the responsible party for the illicit connection.**
- Step 5) Inform the owner of the property as to the existence of an illicit connection and request a meeting to discuss it.**
- Step 6) Inform the responsible party that they are required to terminate the illicit connection or face fines.**
- Step 7) Follow-up inspection within 10 days to enforce and/or ensure that the responsible party is complying with the requirements.**
- Step 8) If the illicit connection is not capped within 10 days, write a Notice of Violation (NOV) letter requesting resolution and describing in detail the consequences.**

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Step 9) If no action by property owner, the second letter is sent in 30 days of follow-up inspection, and the third in 60 days of the follow-up inspection.

Step 10) If no action by property owner after the third letter, the County Counsel is notified to pursue in litigation.

Step 11) The inspector documents and records inspection details and the resolution of the investigation in electronic development and permit tracking system (E-DAPTS)

Illicit Discharges:

The field staff immediately responds to reported spills and discharge, barricades the area, and contains any observed spills or discharges. The field staff then calls a vendor for immediate clean up and files a Hazardous Material Release Response (HMRR) report. If a responsible party of the spill is identified, he/she will be billed for the cleanup. Situations requiring formal enforcement (e.g., warning letter, NOV, referral to District Attorney, etc.) are referred to LACDPW's Environmental Program Division (EPD).

EPD follows the enforcement procedures for eliminating illicit discharges outlined in Section 9 in the implementation manual Volume V for Illicit Connections and Discharges.

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4. Describe your record keeping system to document all illicit connections and discharges.

For Illicit Connections:

A report (gray sheet) is submitted to LDD for each suspected illicit connection. The illicit connections are entered into the MMS and unique equipment numbers are assigned. The data in MMS interfaces with E-DAPTS, which allows the LDD inspectors to access the equipment number and other pertinent information to conduct investigation. Once the investigation is complete, E-DAPTS interfaces with MMS with the details of the investigation and resolution.

For Illicit Discharges:

After responding and cleaning up of spills/discharges, the field staff will document the discharge and gather any relevant information on a HMRR. The information is entered into the MMS.

Illicit discharge complaints and referrals to EPD are initially documented in the HMS database program, and an inspection/investigation is created. If the discharge is determined not to be in our jurisdiction, we will refer the complaint to the appropriate agency. If an illicit discharge is discovered during the inspection/investigation and the discharge ceases with no further follow up actions required, the complaint is closed out. If the discharge requires further follow-up action(s) by EPD, a follow up will be done. A violation will be created and/or a Notice will be issued.

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5. What is the total length of open channel that your agency owns and operates? **481 miles**
6. What length was screened last year for illicit connections? **425 miles**
7. What is the total length of closed storm drain that your agency owns and operates? **3200 miles**
8. What length was screened last year for illicit connections? **535 miles**
9. Describe the method used to screen your storm drains.

FMD personnel (Underground Crew) inspect both underground storm drains as well as open channels. Each time the crews locate an illicit connection they report it by taking a photograph and filling out a report (gray sheet) that describes its location, size, type of pipe, and other valuable information. This information is then forwarded to LDD for further investigation.

The FMD Underground Crews have a set of routines scheduled on a 1, 3, and 6 year cycle: 1 year cycle for drains with high probability of illegal connection, 3 year cycle for drains within industrial and commercial areas where illicit connection is most likely, and 6 year cycles for residential areas where illegal connection is least likely.

10. Provide the reporting data for illicit connections as suggested in the following table (you may submit a spreadsheet from your database that contains the information).

Year	Total # reported/identified	Total # investigated	# that conveyed exempt discharges or NPDES permitted	# that conveyed illicit discharges that were terminated	# that were removed	# that resulted in enforcement action	# that resulted in <i>other</i> actions
01/02	494	494	398	24	24	0	0
02/03	1563	1410	85	53	70	112	42
03/04	1375	1247	89	81	64	12	56
04/05	1352	1203	523	40	98	15	18
05/06	1079	934	819	49	35	10	21
06/07	479	479	226	21	20	0	36
07/08	775	677	426	21	12	0	218
08/09	534	346	262	19	21	0	46
09/10	409	354	219	30	37	0	68
10/11	99	97	68	5	12	0	12
11/12	170	127	95	15	35	0	9
12/13	83	79	63	9	16	0	1

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11. Explain any other actions that occurred in the last year.

On occasion, LDD will close and return the file to FMD to take action, such as constructing a bulk head (brick seal), removing the connection, or gathering additional information required to perform the investigation.

Some suspected illicit connections were field accepted, documented, and determined to be permissible once an investigation was completed.

12. What is the average time it takes your agency to initiate an illicit connection investigation after it is reported?

21 days

- a) Were all identified connections terminated within 180 days?

Yes ☒ No ☐

- b) If not, explain why.

N/A

13. Provide the reporting data for illicit discharges as suggested in the following table (you may submit a spreadsheet from you database that contains this information).

Year	Total # reported	Total # that were discontinued/ cleaned up voluntarily through enforcement and the source was identified	# that were cleaned up but the source could not be identified	# that resulted in no evidence of discharge	# that were determined to be conditionally exempt	# that were exempt or in compliance and the source identified	# that resulted in enforcement action
01/02	495	102	52	5	3	3	1
02/03	631	137	131	0	1	1	1
03/04	265	146	20	44	4	0	0
04/05	203	136	34	59	2	2	6
05/06	204	153	31	37	0	0	11
06/07	221	162	42	16	0	0	9
07/08	223	138	78	7	0	0	11
08/09	151	102	36	12	0	1	0
09/10	88	53	6	29	0	0	0
10/11	51	48	3	0	0	0	0
11/12	87	85	2	14	0	0	0
12/13	178	175	3	8	0	0	0

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14. What is the average response time after an illicit discharge is reported?

2 hours to less than one business day

a) Did any response times exceed 72 hours?

Yes ☐ No ☒

b) If yes, explain why.

N/A

15. Describe your agency's spill response procedures.

Spill response procedures are described in the illicit connections/illicit discharge program manual dated June 2002, which can be downloaded at http://dpw.lacounty.gov/wmd/NPDES/model_links.cfm; and the Illicit Discharge Response Procedure Manual and Training Code 15 of the Tailgate Codes and Topics, both available upon request.

The existing spill response plan is currently being updated and will be completed prior to WMP/EWMP approval.

Field staff responds to any spills immediately after being notified. The staff's role is to assess and contain the spill. Our staff will ensure that the area in question is secured, cleaned, and all unauthorized people are kept away. A vendor from an approved list performs the necessary cleanup. Our staff will document the spill and gather any relevant information on HMRR. This information is then entered into a database for tracking.

16. What would you do differently to improve your agency's IC/ID Elimination Program?

No suggestions at this time.

17. Attach a list of all permitted connections to your storm sewer system.

The list is over 500 pages and can be retrieved upon request, but is too large to include in this report.

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V. Monitoring

Briefly describe any storm water monitoring activities that are not required by Order No. 01-182 that your municipality conducted, participated in, or received funding to conduct in the past fiscal year. These activities should correspond with the dollar amount you listed in Table 2.

- Dominguez Gap Wetlands Project (partial Prop. 13 CALFED Funded Project)
As required by the State Grant, quarterly monitoring was conducted by LACFCD, and continued through 2013, to determine the efficiency of the wetlands at removing pollutants. The last sampling event was conducted in September 2013, and the final quarterly laboratory analysis report was submitted in November 2013.
- Los Angeles River Watershed-wide Monitoring Program (LARWMP) – Led by the Council for Watershed Health and initiated in 2008, this regional monitoring program was designed to answer basic questions about the health of the watershed, such as is it safe to swim in popular recreational areas, and are the fish safe to eat. As a collaborative effort, the LACFCD, along with other stakeholders continue to provide the support and resources needed to implement this program. The resulting program is a multi-level monitoring framework that combines probabilistic and targeted sampling for water quality, toxicity, and bio-assessment and habitat condition (Council for Watershed Health, 2011). The LACFCD's main contribution is focused on bio-assessments, which entails the collection of macro-invertebrates, calculation of IBI score, and assessment of the bio-diversity of the channel/stream. In addition to sampling for benthic macro-invertebrates, measurements of other stream characteristics, including the chemical (pH, water temperature, dissolved oxygen, conductivity, turbidity, and hardness) and physical/habitat (PHab) conditions of the stream are also being conducted at each monitoring reach. Results are expected to be compiled and analyzed on a five-year basis to make comprehensive watershed-wide assessments for compliance with receiving water objectives, trends in water quality, impacts to beneficial uses, and health of the biological community.
- San Gabriel River Regional Monitoring Program (SGRRMP) - Similar to the program mentioned above, the SGRRMP is being led by the Council for Watershed Health and was designed to answer basic questions about the health of the watershed, such as is it safe to swim in popular recreational areas, and are the fish safe to eat. Since 2005, the LACFCD and other stakeholders have been combining resources to help implement this multi-level monitoring effort that combines probabilistic and targeted sampling for water quality, toxicity, and bio-assessment. The LACFCD's main contribution to this program is focused on bio-assessments, which entails the collection of macro-invertebrates, calculation of IBI score, and assessment of the bio-diversity of the channel/stream. In addition to sampling for benthic macro-invertebrates, measurements of other stream characteristics, including the chemical (pH, water temperature, dissolved oxygen, conductivity, turbidity, and hardness) and physical/habitat (PHab) conditions of the stream

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are also being conducted at each monitoring reach. According to the Council for Watershed Health, initial results illustrated clear patterns between the upper (undeveloped) portions and lower (developed) portions of the watershed in terms of water quality and habitat condition. In 2010, the Council for Watershed Health published the San Gabriel River State of the Watershed Report detailing the overall health of the watershed, trends in water quality, compliance with water quality objectives, and impacts to beneficial uses. The report is available on the Council for Watershed Health website at http://watershedhealth.org/Files/document/737_SOW_2010_web.pdf. Data from continued monitoring efforts will be used to help identify areas where expanded monitoring or special studies should be focused.

- Sun Valley Park Drain and Infiltration Project – The LACFCD conducted post-project storm sampling within the Sun Valley Park Project to determine the efficiency of the BMP at removing pollutants from the Sun Valley drainage area of the Los Angeles River Watershed. Review and analysis of data from 2009-2012 has been conducted for comparison of inlet and outlet concentrations and loads. Results have shown significant reductions in total suspended solids and total metals; however, more recent results have been inconsistent in terms of pollutant removal effectiveness of various constituents. The LACFCD is working with the City of Los Angeles on reviewing maintenance and operation procedures of the facility and evaluating ways to improve the existing monitoring program.
- Marie Canyon Water Quality Improvement Project – In an effort to help determine future management actions, such as prioritizing and optimizing operations, the LACFCD collected dry-weather samples of pre- and post-treatment flows at this site. A quarterly monitoring program established at this site has demonstrated the facility has been effectively removing bacteria from incoming flows. The monitoring has also documented elevated bacteria levels in water near the system outlet, even though 100% of discharged flows are effectively disinfected.
- Rory M. Shaw Wetlands Park Project Baseline Monitoring – The LACFCD has conducted wet weather sampling during the 2011-12 and 2012-13 storm seasons at four locations within the Sun Valley watershed area that will ultimately discharge into the proposed Rory M. Shaw Wetlands Park project. The purpose of the monitoring is to establish baseline water quality and flow conditions prior to project construction. Baseline monitoring will continue to be conducted until the start of construction.
- The Malibu Creek Microbial Source Tracking Study – This study will determine if the sources of bacteria in Malibu Creek Watershed are anthropogenic or natural. If the sources are determined to be anthropogenic then the sources will be tracked and identified. Tracking efforts will include analyzing developed areas with storm drain outfalls and a geographic information systems-based analysis of what land uses and drainage areas are contributing to the associated tributaries and storm drains.

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- Area of Special Biological Significance (ASBS) 24 Monitoring – The LACFCD is participating in the Bight'13 monitoring of ASBS 24. Part of this study, consisting of Rocky Intertidal Biological Monitoring, Bioaccumulation, Reference Monitoring, and Plume Tracking, is being performed by SCCWRP and the LACFCD is providing funding for its share of this effort. The LACFCD is performing additional Bight'13 monitoring of the ASBS consisting of Receiving Water Monitoring and Outfall Discharge Monitoring, which involves monitoring of the ocean and at 9 storm drains discharging into the ocean, to characterize the discharges for a variety of constituents that may reach the ocean waters and evaluate whether natural water quality of the ocean is being affected by stormwater runoff.

The LACFCD is also collaborating with other agencies through the EWMP and CIMP process on future monitoring requirements for the following TMDLs:

- Ballona Creek, Ballona Estuary, and Sepulveda Channel Bacteria TMDL
- Ballona Creek Metals and Estuary Toxic Pollutants TMDLs
- Ballona Creek Wetlands TMDL for Sediment and Invasive Exotic Species
- Long Beach City Beaches and Los Angeles River Estuary Bacteria TMDL
- Los Angeles Area Lakes TMDLs for Lake Calabasas, Echo Park Lake, Legg Lake and Peck Road Park Lake, Puddingstone Reservoir and Santa Fe Dam Park Lake
- Los Angeles River and Tributaries Metals TMDL
- Los Angeles River Watershed Bacteria TMDL
- Los Angeles River Nitrogen Compounds and Related Effects
- Los Cerritos Channel Metals TMDL
- Malibu Creek and Lagoon Bacteria TMDL
- Malibu Creek Nutrient TMDL CMP
- San Gabriel River and Impaired Tributaries Metals and Selenium TMDL
- Santa Clara River Nitrogen Compounds TMDL
- Santa Monica Bay Beaches Bacteria TMDL (Wet and Dry Weather)
- Santa Monica Bay Nearshore and Offshore Debris TMDL
- Santa Monica Bay TMDL for DDTs and PCBs
- Santa Clara River Estuary and Reaches 3, 5, 6, and 7 Indicator Bacteria TMDL

The LACFCD is collaborating with other agencies outside of the EWMP/CIMP process on implementing monitoring requirements for the following TMDLs:

- Colorado Lagoon OC Pesticides, PCBs, Sediment Toxicity, PAHs, and Metals TMDL
- Dominguez Channel and Greater Los Angeles and Long Beach Harbor Waters Toxic Pollutants TMDL

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VI. Assessment of Program Effectiveness

A. Attach a summary of the effectiveness of your storm water management program. This summary should include, at a minimum, the following:

1. An assessment of your agency's compliance with permit requirements, based on your responses to the questions in this form;

The LACFCD believes it is in compliance with the requirements of Order 01-182 and Order R4-2012-0175.

Please refer to Attachment J for program assessments of the PIPP.

2. Descriptions of any evaluation methods that your agency uses to determine the effectiveness of your storm water management program;

Illicit Connection and Illicit Discharge Elimination Program

Program effectiveness can be evaluated using quantitative methods such as the year-to-year comparison of the number of illicit connections and illicit discharges reported/investigated/resolved (see Part IV, Items F10 and 13). Previous years' data revealed a general downward trending in the number of illicit connections and discharges from to year.

Illicit connection data can fluctuate from year to year, depending on the predominant land use of the drainage area serviced by the particular storm drains being inspected in a given year. For example, the number of illicit connections may increase if the associated land use is High Density Single Family Residential. However, an illicit connection from a Heavy Industrial land use occurs much less frequently, but is likely to have a greater impact on water quality. In the case for this reporting year, more illicit connections were reported to LACFCD catch basins. As more illicit connections are eliminated from our main lines, coupled with past experiences of finding illicit connections to the back of catch basins, field staff are proactively screening for illicit connections to our catch basins.

An increase in reported illicit discharges can be a result of a robust reporting program or actual increase in the number of incidents. A decrease can be due to either an actual change in behavior or a less effective reporting program. With extensive outreach, advertising and branding of the 888-CLEANLA hotline and website, the LACFCD believes any decrease in illicit discharges is more likely the result of change in behavior that may cause stormwater pollution through the efforts of management and staff in implementing the stormwater

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program (reporting, investigation, and resolution; public education and outreach; etc.), rather than a decrease in reporting.

Measuring program effectiveness can be challenging in choosing meaningful metrics, properly evaluating the data, making assumptions and drawing conclusions, taking into account other factors that may affect the results.

Public Information and Participation Program

Program effectiveness is evaluated using quantitative and qualitative methods such as tracking of hotline call levels, hits on the www.888CleanLA.com website, collection levels of household hazardous waste and Electronic Waste (E-Waste), and used motor oil collected, trash measurement data, and anecdotal information gathered from program participants. We continue to implement an innovative and proactive stormwater pollution prevention public education program.

3. A summary of the strengths and weaknesses of your agency's storm water management program;

Strengths

Meeting Permit requirements is the primary strength of the LACFCD's stormwater management program. A committed staff willing to learn and "do the right thing" is a key component to success.

Public Information and Participation Program

(See Attachment J for more information)

The primary strength of LACFCD's PIPP continues to be the expertise of our staff to coordinate paid media buys, media relations efforts, copermittee technical assistance, and corporate partnerships in a proficient and cost-effective manner to encourage and facilitate pollution prevention behaviors by County residents. For example, the partnership between LACDPW and O'Reilly stores offered Do-It-Yourselfers a convenient and eco-friendly option to recycle used oil filters at stores located throughout the County.

LACFCD continued to develop and implement creative multimedia campaigns that included broadcast of stormwater pollution prevention messages through the following media outlets: radio; billboards; and newspapers. The campaign messages reached our target audiences and achieved an increase in advertising awareness for the promotion of used motor oil and oil filter recycling among the Chinese Market.

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Weaknesses***Public Information and Participation Program***

(See Attachment J for more information)

Limited funding is available to implement a comprehensive Countywide campaign through consistent media flighting to address all of the types of littering addressed in the numerical behavior change targets approved by the Regional Board in May 2002. Also, the cultural diversity of the target audiences continues to provide challenges to reach these residents and increase awareness about stormwater pollution in a cost effective manner to achieve the desired behavior change among these target audiences.

4. A list of specific program highlights and accomplishments;
- The LACFCD is implementing telemetry upgrades to improve the NPDES Monitoring Program. Five of the seven Mass Emission Sites were upgraded including Ballona Creek, Coyote Creek, Dominguez Channel, Los Angeles River, and Malibu Creek. The telemetry system will also be utilized at three new Malibu Creek Tributary sites, and three additional monitoring stations in the Los Angeles River Watershed along Tujunga Wash, Compton Creek, and Aliso Creek. The telemetry systems will provide for more efficient water quality monitoring. As a result, the telemetry system will allow LACFCD staff to remotely collect flow data and water quality data such as pH, turbidity, dissolved oxygen and temperature. The telemetry system is currently operational and collecting data.
 - LACFCD Low Flow Diversion Update Projects – The LACFCD operates and maintains 21 low flow diversions (LFDs) in the Santa Monica Bay and Marina del Rey watersheds, which divert dry weather urban runoff into the sanitary sewer system or other treatment. In 2010, the LACFCD created LFD Task Force whose purpose is to optimize the operations of the LACFCD's 21 LFDs. The LFD Task Force's recommendations resulted in increased staffing dedicated to maintenance of the LFDs. In 2011, the LFD Task Force implemented a pilot program at three locations to evaluate potential improvements to the data gathering and reporting equipment at the LACFCD's LFDs. This program was highly successful and the LACFCD is currently executing a system-wide update project to implement similar improvements at all of its LFDs, with project completion scheduled for spring 2014.
 - The LACFCD contributed over \$250,000 towards the Malibu Surfrider Beach Epidemiological study led by Southern

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California Coastal Water Research Project. The study was designed to evaluate the risk of swimming-related illnesses at nonpoint source polluted beaches and whether these illnesses are correlated to traditional fecal bacteria indicators. The study involved a survey of more than 5,000 beachgoers as well as hundreds of water sample collection from five sites along the Surfrider Beach. The study was completed in 2013. The study found that (i) water quality at surfirider was generally good during the study period, with only 7% of the samples exceeding water quality criteria; (ii) fecal indicator bacteria levels were not associated with swimmer illness; (iii) diarrhea was more common among swimmers than non-swimmers, with swimmers with body immersion having higher risk; and (iv) much of the health incidences occurred within three days following a beach visit.

- **The Oxford Retention Basin Multiuse Enhancement Project** will provide flood risk mitigation, water quality improvements, removal of potentially contaminated sediment, habitat improvements, as well as aesthetic and recreational enhancements. The design plans are complete and the project is scheduled for construction in 2014, pending approval of environmental permits.
- **Completed Tujunga Wash Ecosystem Restoration Project**, which created a new naturalized stream that meanders along the west bank of a 3/4-mile stretch of the channel between Vanowen Street and Sherman Way. The project greatly enhances the environment by providing more than 10 acres of open space in an area that significantly lacks this resource. Throughout all phases of the project both the LACFCD and the Corps of Engineers ensured the public was involved and was informed of any changes. The Draft Integrated Detailed Project Report/Environmental Assessment was released for public review and comment to ensure there would be no impacts to governmental and non-governmental agencies and to determine stakeholders' preferred alternative. Before the start of construction, door to door flyers were passed out notifying nearby residents of the project and its construction start date. The nearby residents and community showed their support of the project by attending both the groundbreaking and dedication events held by the County Supervisor Zev Yaroslavsky and Colonel Toy of the Corps of Engineers. The project restored riparian habitat along the banks of the stream and includes pedestrian walkways, seating areas, native and drought-tolerant landscaping, and new entryways. The project also replenishes groundwater, enhances water quality, and serves as a model for a sustainable and healthy stream system in a dense, urban setting. The \$7 million project was funded by the LACFCD (25%)

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and the Corp of Engineers (75%). Construction was completed in July 2012.

- Completed the design plans for the Los Angeles River Headwaters Project. The project will construct recreational trails along a 1.25 mile stretch of the Los Angeles River between Owensmouth Avenue and Mason Avenue in the City of Los Angeles. Enhancements will include native landscaping, rest area amenities, educational signage, pedestrian bridges over Brown's Creek and Kelvin Channel, and rain gardens. Construction began in April 2013 and is scheduled to be completed in 2014.
- Continued development of the Rory M. Shaw Wetlands Park Project (formerly named the Strathern Wetlands Park Project). The project proposes the conversion of a 46-acre, former construction debris landfill into a multi-use facility. The project proposes to capture stormwater runoff in a detention pond, convey the water through constructed wetlands for water quality treatment, and pump the treated flows to the adjacent Sun Valley Park for infiltration into existing infiltration basins for groundwater recharge. The project will also enhance native vegetation, create recreational trails, and incorporate educational signage. The LACFCD hosted three community meetings for the project. On April 16, 2011, LACFCD provided an overview of the Sun Valley Watershed Management Plan, gave an introduction to the Strathern Wetlands Park Project, and solicited input from the community on the recreational components of the project. On September 17, 2011, LACFCD returned to the community to review the final project concept. On September 19, 2012, Supervisor Zev Yaroslavsky and Paloma Perez of Councilmember Tony Cardenas' office presented the final project concept and announced the new project name; Rory M. Shaw Wetlands Park. The project is currently in the design phase. The project is scheduled to begin construction in 2017.
- The Comprehensive Watershed Management Modeling System (WMMS) has been completed. It will be used to identify cost-effective pollution reduction projects to address urban runoff and stormwater quality. WMMS covers all watersheds included in the permit and provides an effective tool for long term TMDL implementation and overall watershed management. In particular, it can be effectively used for watershed- or local-scale water quality improvement plan development. The United States Environmental Protection Agency partnered in the development of WMMS. The WMMS was one of three models that were specifically referenced in the 2012 MS4 Permit as a mechanism to perform a Reasonable Assurance Analysis. The WMMS is publically available to download at www.LACountyWMMS.com.

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- **Please refer to Attachment J for a list of program highlights and accomplishments for PIPP.**

5. A description of water quality improvements or degradation in your watershed over the past fiscal year;

Refer to Attachment N

6. Interagency coordination between cities to improve the storm water management program;

- **Interagency coordination between the LACFCD, County and the cities is facilitated through the EAC and WMC meetings. This has been effective in broadening communication between Permittees. Additionally, coordination of the PIPP is enhanced by quarterly meetings hosted by the LACFCD.**
- **Interagency coordination of the 1-888-CLEAN-LA environmental hotline afforded turnkey coordination of responses to illicit discharge complaints and directed calls such as illicit discharge complaints to a representative in the appropriate jurisdiction so corrective action can be taken. Also, the LACFCD updated the co-permittee's contact information that is accessible to the general public and residents by visiting the CleanLA.com website.**
- **The LACFCD provided co-permittees with stormwater collateral and technical support in the development of public outreach campaigns for city residents, as well as in support of various watershed management groups.**

7. Future plans to improve your agency's storm water management program; and

- **To better understand the relative urban runoff contribution to receiving waters, the LACFCD is implementing a pilot Automated Regional Stormwater Monitoring Program, an automated telemetry system for real-time stormwater monitoring of flood control channels. The system will monitor pH, turbidity, dissolved oxygen, and temperature.**
- **LACFCD will work with Permittees to initiate integrated watershed planning.**

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8. Suggestions to improve the effectiveness of your program or the County model programs.

See Attachment J for PIPP

- B. On a scale of 1 to 10 (10 being full implementation of requirements by their deadlines), rate your municipality's level of compliance with Order No. 01-182.

10 – The LACFCD has implemented all permit requirements.

- C. List any suggestions your agency has for improving program reporting and assessment.

None at this time.

Los Angeles County Municipal Storm Water Permit (Order 01-182)
Individual Annual Report Form
Attachment U-4

VII. Certification Statement

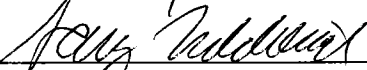
"I certify under penalty of law that this document and all attachments were prepared under my direction or supervision in accordance with a system designed to assure that qualified personnel properly gather and evaluate the information submitted.

Based on my inquiry of the person or persons who manage the system, or those persons directly responsible for gathering the information, the information submitted is, to the best of my knowledge and belief, true, accurate, and complete. I am aware that there are significant penalties for submitting false information, including the possibility, of a fine and imprisonment for knowing violations.

Executed on the 16 day of December, 2013

at Alhambra, Ca.

Printed Name Gary Hildebrandt Title Asst. Deputy Director

(Signature) 

Signature by duly authorized representative